

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/664,605A  
Source: IFW/16  
Date Processed by STIC: 5/30/06

# ***ENTERED***



IFW16

## RAW SEQUENCE LISTING

DATE: 05/30/2006

PATENT APPLICATION: US/10/664,605A

TIME: 09:40:04

Input Set : A:\seq listing 81408-4300.txt

Output Set: N:\CRF4\05302006\J664605A.raw

```

3 <110> APPLICANT: Golembo, Myriam
4   Yayon, Avner
6 <120> TITLE OF INVENTION: METHOD AND COMPOSITION FOR TREATMENT OF SKELETAL DYSPLASIAS
8 <130> FILE REFERENCE: 81408-4300
10 <140> CURRENT APPLICATION NUMBER: US 10/664,605A
11 <141> CURRENT FILING DATE: 2003-09-15
13 <150> PRIOR APPLICATION NUMBER: US 60/276,939
14 <151> PRIOR FILING DATE: 2001-03-20
16 <150> PRIOR APPLICATION NUMBER: IL 142118
17 <151> PRIOR FILING DATE: 2001-03-20
19 <150> PRIOR APPLICATION NUMBER: PCT/IL02/00229
20 <151> PRIOR FILING DATE: 2002-03-20
22 <160> NUMBER OF SEQ ID NOS: 75
24 <170> SOFTWARE: PatentIn version 3.1
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 22
28 <212> TYPE: PRT
29 <213> ORGANISM: Homo sapiens
31 <300> PUBLICATION INFORMATION:
32 <308> DATABASE ACCESSION NO: P23582
33 <309> DATABASE ENTRY DATE: 2001-10-16
34 <313> RELEVANT RESIDUES: (105)..(126)
36 <400> SEQUENCE: 1
38 Gly Leu Ser Lys Gly Cys Phe Gly Leu Lys Leu Asp Arg Ile Gly Ser
39 1           5           10          15
42 Met Ser Gly Leu Gly Cys
43           20
46 <210> SEQ ID NO: 2
47 <211> LENGTH: 17
48 <212> TYPE: PRT
49 <213> ORGANISM: Homo sapiens
51 <300> PUBLICATION INFORMATION:
52 <308> DATABASE ACCESSION NO: P23582
53 <309> DATABASE ENTRY DATE: 2001-10-16
54 <313> RELEVANT RESIDUES: (110)..(126)
56 <400> SEQUENCE: 2
58 Cys Phe Gly Leu Lys Leu Asp Arg Ile Gly Ser Met Ser Gly Leu Gly
59 1           5           10          15
62 Cys
66 <210> SEQ ID NO: 3
67 <211> LENGTH: 29
68 <212> TYPE: PRT
69 <213> ORGANISM: Homo sapiens

```

## RAW SEQUENCE LISTING

DATE: 05/30/2006

PATENT APPLICATION: US/10/664,605A

TIME: 09:40:04

Input Set : A:\seq listing 81408-4300.txt

Output Set: N:\CRF4\05302006\J664605A.raw

71 &lt;300&gt; PUBLICATION INFORMATION:

72 &lt;308&gt; DATABASE ACCESSION NO: P01161

73 &lt;309&gt; DATABASE ENTRY DATE: 2001-10-16

74 &lt;313&gt; RELEVANT RESIDUES: (123)..(150)

76 &lt;400&gt; SEQUENCE: 3

78 Pro Ser Leu Arg Arg Ser Ser Cys Phe Gly Gly Arg Met Asp Arg Ile

79 1 5 10 15

82 Gly Ala Gln Ser Gly Leu Gly Cys Asn Ser Phe Arg Tyr

83 20 25

86 &lt;210&gt; SEQ ID NO: 4

87 &lt;211&gt; LENGTH: 32

88 &lt;212&gt; TYPE: PRT

89 &lt;213&gt; ORGANISM: Homo sapiens

91 &lt;300&gt; PUBLICATION INFORMATION:

92 &lt;308&gt; DATABASE ACCESSION NO: P16860

93 &lt;309&gt; DATABASE ENTRY DATE: 2001-10-16

94 &lt;313&gt; RELEVANT RESIDUES: (103)..(134)

96 &lt;400&gt; SEQUENCE: 4

98 Ser Pro Lys Met Val Gln Gly Ser Gly Cys Phe Gly Arg Lys Met Asp

99 1 5 10 15

102 Arg Ile Ser Ser Ser Ser Gly Leu Gly Cys Lys Val Leu Arg Arg His

103 20 25 30

106 &lt;210&gt; SEQ ID NO: 5

107 &lt;211&gt; LENGTH: 17

108 &lt;212&gt; TYPE: PRT

109 &lt;213&gt; ORGANISM: Artificial Sequence

111 &lt;220&gt; FEATURE:

112 &lt;223&gt; OTHER INFORMATION: peptide variant

114 &lt;220&gt; FEATURE:

115 &lt;221&gt; NAME/KEY: MISC\_FEATURE

116 &lt;222&gt; LOCATION: (4)..(4)

117 &lt;223&gt; OTHER INFORMATION: X at position 4 is defined as Xaa in the specification and is either

118 her Leu (L), Ile (I) or Val (V)

121 &lt;220&gt; FEATURE:

122 &lt;221&gt; NAME/KEY: MISC\_FEATURE

123 &lt;222&gt; LOCATION: (5)..(5)

124 &lt;223&gt; OTHER INFORMATION: X at position 5 is defined as Xbb in the description and is either

125 er Lys (K), Leu (L) or Met (M)

128 &lt;220&gt; FEATURE:

129 &lt;221&gt; NAME/KEY: MISC\_FEATURE

130 &lt;222&gt; LOCATION: (6)..(6)

131 &lt;223&gt; OTHER INFORMATION: X at position 6 is defined as Xcc in the description and is either

132 er Leu (L), Ile (I), Ala (A) or Val (V)

135 &lt;220&gt; FEATURE:

136 &lt;221&gt; NAME/KEY: MISC\_FEATURE

137 &lt;222&gt; LOCATION: (11)..(11)

138 &lt;223&gt; OTHER INFORMATION: X at position 11 is defined as Xdd in the description and is either

139 her Ser (S), Ala (A), Gly (G), Thr (T) or Asn (N)

142 &lt;220&gt; FEATURE:

## RAW SEQUENCE LISTING

DATE: 05/30/2006

PATENT APPLICATION: US/10/664,605A

TIME: 09:40:04

Input Set : A:\seq listing 81408-4300.txt

Output Set: N:\CRF4\05302006\J664605A.raw

```

143 <221> NAME/KEY: MISC_FEATURE
144 <222> LOCATION: (12)..(12)
145 <223> OTHER INFORMATION: X at position 12 is defined as Xee in the description and is
eith
146      er Met (M), Ala (A), Lys (K), Trp (W).
149 <220> FEATURE:
150 <221> NAME/KEY: MISC_FEATURE
151 <222> LOCATION: (14)..(14)
152 <223> OTHER INFORMATION: X at position 14 is defined as Xff in the description and is
eith
153      er Gly (G), Lys (K), Ala (A) or Leu (L).
156 <220> FEATURE:
157 <221> NAME/KEY: MISC_FEATURE
158 <222> LOCATION: (15)..(15)
159 <223> OTHER INFORMATION: X at position 15 is defined as Xgg in the specification and
is ei
160      ther Leu (L) or Met (M).
163 <400> SEQUENCE: 5
W--> 165 Cys Phe Gly Xaa Xaa Xaa Asp Arg Ile Gly Xaa Xaa Ser Xaa Xaa Gly
166 1          5          10          15
169 Cys
173 <210> SEQ ID NO: 6
174 <211> LENGTH: 17
175 <212> TYPE: PRT
176 <213> ORGANISM: Artificial Sequence
178 <220> FEATURE:
179 <223> OTHER INFORMATION: peptide variant
181 <400> SEQUENCE: 6
183 Cys Ala Gly Leu Lys Leu Asp Arg Ile Gly Ser Met Ser Gly Leu Gly
184 1          5          10          15
187 Cys
191 <210> SEQ ID NO: 7
192 <211> LENGTH: 17
193 <212> TYPE: PRT
194 <213> ORGANISM: Artificial Sequence
196 <220> FEATURE:
197 <223> OTHER INFORMATION: peptide variant
199 <400> SEQUENCE: 7
201 Cys Phe Gly Leu Lys Leu Ala Arg Ile Gly Ser Met Ser Gly Leu Gly
202 1          5          10          15
205 Cys
209 <210> SEQ ID NO: 8
210 <211> LENGTH: 17
211 <212> TYPE: PRT
212 <213> ORGANISM: Artificial Sequence
214 <220> FEATURE:
215 <223> OTHER INFORMATION: peptide variant
217 <400> SEQUENCE: 8
219 Cys Phe Gly Leu Lys Leu Asp Ala Ile Gly Ser Met Ser Gly Leu Gly
220 1          5          10          15
223 Cys
227 <210> SEQ ID NO: 9

```

## RAW SEQUENCE LISTING

DATE: 05/30/2006

PATENT APPLICATION: US/10/664,605A

TIME: 09:40:04

Input Set : A:\seq listing 81408-4300.txt

Output Set: N:\CRF4\05302006\J664605A.raw

228 <211> LENGTH: 17  
 229 <212> TYPE: PRT  
 230 <213> ORGANISM: Artificial Sequence  
 232 <220> FEATURE:  
 233 <223> OTHER INFORMATION: peptide variant  
 235 <400> SEQUENCE: 9  
 237 Cys Phe Gly Leu Lys Leu Asp Arg Ala Gly Ser Met Ser Gly Leu Gly  
 238 1 5 10 15  
 241 Cys  
 245 <210> SEQ ID NO: 10  
 246 <211> LENGTH: 17  
 247 <212> TYPE: PRT  
 248 <213> ORGANISM: Artificial Sequence  
 250 <220> FEATURE:  
 251 <223> OTHER INFORMATION: peptide variant  
 253 <400> SEQUENCE: 10  
 255 Cys Phe Gly Leu Lys Leu Asp Arg Ile Gly Ser Ala Ser Gly Leu Gly  
 256 1 5 10 15  
 259 Cys  
 263 <210> SEQ ID NO: 11  
 264 <211> LENGTH: 15  
 265 <212> TYPE: PRT  
 266 <213> ORGANISM: Artificial Sequence  
 268 <220> FEATURE:  
 269 <223> OTHER INFORMATION: peptide variant  
 271 <400> SEQUENCE: 11  
 273 Cys His Phe Gly Leu Lys Leu Asp Arg Ile Gly Ser Met Ser Cys  
 274 1 5 10 15  
 277 <210> SEQ ID NO: 12  
 278 <211> LENGTH: 15  
 279 <212> TYPE: PRT  
 280 <213> ORGANISM: Artificial Sequence  
 282 <220> FEATURE:  
 283 <223> OTHER INFORMATION: peptide variant  
 285 <400> SEQUENCE: 12  
 287 Cys His Phe Gly Leu Lys Leu Asp Arg Ile Gly Ser Met Ala Cys  
 288 1 5 10 15  
 291 <210> SEQ ID NO: 13  
 292 <211> LENGTH: 15  
 293 <212> TYPE: PRT  
 294 <213> ORGANISM: Artificial Sequence  
 296 <220> FEATURE:  
 297 <223> OTHER INFORMATION: peptide variant  
 299 <400> SEQUENCE: 13  
 301 Cys His Phe Gly Leu Lys Leu Asp Arg Ile Gly Ala Gln Ser Cys  
 302 1 5 10 15  
 305 <210> SEQ ID NO: 14  
 306 <211> LENGTH: 14  
 307 <212> TYPE: PRT

## RAW SEQUENCE LISTING

DATE: 05/30/2006

PATENT APPLICATION: US/10/664,605A

TIME: 09:40:04

Input Set : A:\seq listing 81408-4300.txt

Output Set: N:\CRF4\05302006\J664605A.raw

```

308 <213> ORGANISM: Artificial Sequence
310 <220> FEATURE:
311 <223> OTHER INFORMATION: peptide variant
313 <400> SEQUENCE: 14
315 Cys Phe Gly Leu Lys Leu Asp Arg Ile Gly Ser Met Ser Cys
316 1          5          10
319 <210> SEQ ID NO: 15
320 <211> LENGTH: 14
321 <212> TYPE: PRT
322 <213> ORGANISM: Artificial Sequence
324 <220> FEATURE:
325 <223> OTHER INFORMATION: peptide variant
327 <400> SEQUENCE: 15
329 Cys Phe Gly Leu Lys Leu Asp Arg Ile Gly Ala Gln Ser Cys
330 1          5          10
333 <210> SEQ ID NO: 16
334 <211> LENGTH: 13
335 <212> TYPE: PRT
336 <213> ORGANISM: Artificial Sequence
338 <220> FEATURE:
339 <223> OTHER INFORMATION: peptide variant
341 <400> SEQUENCE: 16
343 Cys Phe Gly Leu Lys Leu Asp Arg Ile Gly Ser Met Cys
344 1          5          10
347 <210> SEQ ID NO: 17
348 <211> LENGTH: 13
349 <212> TYPE: PRT
350 <213> ORGANISM: Homo sapiens
352 <400> SEQUENCE: 17
354 Cys Phe Gly Leu Lys Leu Asp Arg Ile Gly Ala Met Cys
355 1          5          10
358 <210> SEQ ID NO: 18
359 <211> LENGTH: 13
360 <212> TYPE: PRT
361 <213> ORGANISM: Artificial Sequence
363 <220> FEATURE:
364 <223> OTHER INFORMATION: peptide variant
366 <400> SEQUENCE: 18
368 Cys Phe Gly Leu Lys Leu Asp Arg Ile Gly Ser Gln Cys
369 1          5          10
372 <210> SEQ ID NO: 19
373 <211> LENGTH: 13
374 <212> TYPE: PRT
375 <213> ORGANISM: Artificial Sequence
377 <220> FEATURE:
378 <223> OTHER INFORMATION: peptide variant
380 <400> SEQUENCE: 19
382 Cys Phe Gly Leu Lys Leu Asp Arg Ile Gly Ala Gln Cys
383 1          5          10

```

RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 05/30/2006  
PATENT APPLICATION:    US/10/664,605A      TIME: 09:40:05

Input Set : A:\seq listing 81408-4300.txt  
Output Set: N:\CRF4\05302006\J664605A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; Xaa Pos: 4, 5, 6, 11, 12, 14, 15

**VERIFICATION SUMMARY**

DATE: 05/30/2006

PATENT APPLICATION: US/10/664,605A

TIME: 09:40:05

Input Set : A:\seq listing 81408-4300.txt

Output Set: N:\CRF4\05302006\J664605A.raw

L:165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0